## **Amendments to the Claims:**

The following Listing of Claims will replace all prior versions and listings of claims in the application:

## Listing of Claims

- 1. (Currently amended) A process for analyzing a biological sample containing two or more microorganisms, comprising the steps of:
- (a) identifying [[a]] two or more different micro-organisms present within the sample by analyzing the two or more different microorganisms' nucleic acid; and
- (b) determining, in parallel, the effect of one or more antimicrobial(s) on [[a]] the two or more different micro-organisms from the sample, wherein determining the effect of one or more antimicrobial(s) comprises adding an antimicrobial at a predetermined concentration to [[a]] the sample, incubating the sample in the presence of the antimicrobial for a pre-determined time period under conditions that allow some growth of the two or more different micro-organisms, and assessing the number of each one of the two or more microorganisms in the sample at the end of the pre-determined time period by analyzing the microorganisms' nucleic acid;

wherein identifying a micro-organism present in the sample comprises identifying a micro-organism species;

wherein steps (a) and (b) are performed without prior separation of the two or more microorganisms;

wherein steps (a) and (b) are performed by analyzing the microorganism's nucleic acid.

- 2. (Original) The process of claim1, wherein step (a) involves a nucleic acid hybridization assay.
- 3. (Previously presented) The process of claim 1, wherein step (b) involves a nucleic acid hybridization assay.

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4. (Previously presented) The process of claim 1, wherein step (a) and/or step (b) involves amplification of nucleic acid from the micro-organism.

- 5. (Original) The process of claim 4, wherein nucleic acid amplification uses the polymerase chain reaction.
- 6. (Previously presented) The process of claim 4, wherein nucleic acid amplification uses primers which are specific to a micro-organism of interest.
- 7. (Previously presented) The process of claim 1, wherein the micro-organism's DNA is analysed.
- 8. (Previously presented) The process of claim 1, wherein the micro-organism's RNA is analysed.
- 9. (Original) The process of claim 7 or claim 8, wherein said DNA or RNA is a rRNA or rDNA.

## 10 - 11. (Canceled)

- 12. (Previously presented) The process of claim 1, wherein the antimicrobial(s) used in step (b) are selected based on the results of step (a).
- 13. (Previously presented) The process of claim 1, wherein step (b) involves a comparison with data obtained in step (a).
- 14. (Previously presented) The process of claim 1, wherein the micro-organism is a bacterium, a fungus, a parasite or a virus.
- 15. (Previously presented) The process of claim 1, wherein the antimicrobial is an antibiotic, an antimycotic or an antiviral.

16. (Previously presented) The process of claim 2, wherein the process comprises the use of a probe.

- 17. (Previously presented) The process of claim 16, wherein the probe is a labelled probe.
- 18. (Currently amended) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises-determination of comparing at least a part of the microorganism's genome sequence to a known sequence.
- 19. (Currently amended) The process of claim 1, wherein analyzing the microorganism's nucleic acid comprises determination of restriction fragment length polymorphism analysis or amplified rDNA restriction analysis.